

HAC Test Report for Telecoil IHDT56HZ1

Date of test: May-05-2007 to May-07-2007

Date of Report: May-08-2007

Motorola Mobile Devices Business Product Safety & Compliance Laboratory

600 N. US Highway 45

Laboratory: Room: MW113

Libertyville, Illinois 60048

Thomas Nipple **Test Responsible:**

RF Engineer

Motorola declares under its sole responsibility that portable cellular telephone FCC IHDT56HZ1 to

FCC ID: IHDT56HZ1

which this declaration relates, complies with recommendations and guidelines FCC 47 CFR

Statement of §20.19. The measurements were performed to ensure compliance to the ANSI C63.19-2006. It **Compliance:** also declares that the product was tested in accordance with the appropriate measurement

standards, guidelines and recommended practices. Any deviations from these standards, guidelines

and recommended practices are noted below:

(none)

T Category = T3**Results Summary:**

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The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Motorola encourages all feedback, both positive and negative, on this test report.

Exhibit 6B - 2 Page 1

Table of Contents

1. INTRODUCTION	3
2. DESCRIPTION OF THE DEVICE UNDER TEST	3
3. TEST EQUIPMENT USED	4
4. SIGNAL VERIFICATION	7
5. TEST RESULTS	8
5.1 T-coil SNR Results	8
5.2 T-coil Environment Results	13
5.3 T-Rating Results	14
APPENDIX 1: CONTOUR PLOTS	15
APPENDIX 2: AMBIENT NOISE SPECTRUM PLOTS	20
APPENDIX 3: DETAILS ON THE MEASUREMENT SYSTEMS	23
APPENDIX 4: PICTURES OF TEST SETUP	30
APPENDIX 5: MOTOROLA UNCETAINTY BUDGET	33
APPENDIX 6: AUDIO MAGNETIC PROBE CERTIFICATE	35
APPENDIX 7: AMCC CERTIFICATE (HELMHOLZ COIL)	36
APPENDIX 8: HAC DISTRIBUTION PLOTS FOR E-FIELD AND H-FIELD	37

1. Introduction

The Motorola Mobile Devices Business Product Safety Laboratory has performed Hearing Aid Compatibility (HAC) measurements for the portable cellular phone (FCC ID IHDT56HZ1). The portable cellular phone was tested in accordance with ANSI PC63.19-2006 standard. The test results presented herein clearly demonstrate compliance FCC 47 CFR § 20.19. This report demonstrates compliance for Telecoil performance only and not for near field emissions.

FCC ID: IHDT56HZ1

2. Description of the Device Under Test

Table 1: Information for the Device Under Test

Serial Number		35	55630100001	47			
Mode(s) of Operation	GSM 850	GSM 900	GSM 1800	GSM 1900	Bluetooth		
Modulation Mode(s)	GMSK	GMSK	GMSK	GMSK	GFSK		
Maximum Output Power Setting	33.00 dBm	33.00 dBm	30.50 dBm	30.50 dBm	4.0 dBm		
Duty Cycle	1:8	1:8	1:8	1:8	1:1		
Transmitting Frequency Range(s)	824.2 - 848.8 MHz	880.2 - 914.8 MHz	1710.2 - 1784.8 MHz	1850.2 - 1909.8 MHz	2400.0 - 2483.5 MHz		
Production Unit or Identical Prototype (47 CFR §2.908)			Identical Prototype				
Device Category	Portable						
RF Exposure Limits		Genera	al Population / Uncor	ntrolled			

Mode(s) of Operation	GPRS 850				GPRS GPRS 900 1800				GPRS 1900							
Modulation Mode(s)		GM	ISK			GMSK			GMSK			GMSK				
Maximum Output Power Setting	33.00 dBm	31.00 dBm	29.50 dBm	27.50 dBm	33.00 dBm	31.00 dBm	29.50 dBm	27.50 dBm	30.50 dBm	28.50 dBm	26.50 dBm	24.50 dBm	30.50 dBm	28.50 dBm	26.50 dBm	24.50 dBm
Duty Cycle	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8
Transmitting Frequency Range(s)			- 848.8 Hz			880.2 - 914.8 MHz			1710.2 - 1784.8 MHz				1850.2 - 1909.8 MHz			

Mode(s) of Operation	EDGE 850		EDGE 900			EDGE 1800			EDGE 1900							
Modulation Mode(s)		8PSK		8PSK			8PSK			8PSK						
Maximum Output Power Setting	27.50 dBm	26.50 dBm	24.50 dBm	22.50 dBm	27.50 dBm	26.50 dBm	24.50 dBm	22.50 dBm	26.50 dBm	25.50 dBm	23.50 dBm	21.50 dBm	26.50 dBm	25.50 dBm	23.50 dBm	21.50 dBm
Duty Cycle	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8	1:8	2:8	3:8	4:8
Transmitting Frequency Range(s)			- 848.8 Hz			880.2 - 914.8 MHz			1710.2 - 1784.8 MHz				1850.2 - 1909.8 MHz			

 $Note: Bolded\ entries\ indicate\ data\ mode\ of\ highest\ time-average\ power\ per\ band\ and\ type.$

Note: No Bluetooth profile exists in this phone that will allow a Bluetooth link while in a cellular call that passes audio to the earpiece. If the user had Bluetooth enabled and a link established, they could not be listening to the phone through the earpiece.

Page 3 Exhibit 6B - 2

3. Test Equipment Used

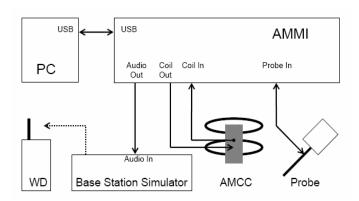
The Motorola Mobile Devices Business Product Safety & Compliance Laboratory utilizes a Dosimetric Assessment System (Dasy4TM v4.7) manufactured by Schmid & Partner Engineering AG (SPEAGTM) of Zurich, Switzerland. All Telecoil measurements are taken within a shielded enclosure. The measurement uncertainty budget is given in Appendix 5. The list of calibrated equipment used for the measurements is shown in Table 2.

Table 2: Test Equipment

	Description	Serial Number	Cal Due Date
	DAE3	434	Jan-23-2008
Dosimetric	Audio Magnetic 1D Field Probe AM1DV2	1003	
System Equipment	AMMI SE UMS 010 AA	1005	
Equipment	AMCC SD HAC P02 AB	1005	
	Test Arch SD HAC D01 BA	1036	
Additional Test Equipment	Rohde & Schwarz CMU 200	108475	Oct-23-2007

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Figure 1: Telecoil setup and cabling (pictures from DASY manual)



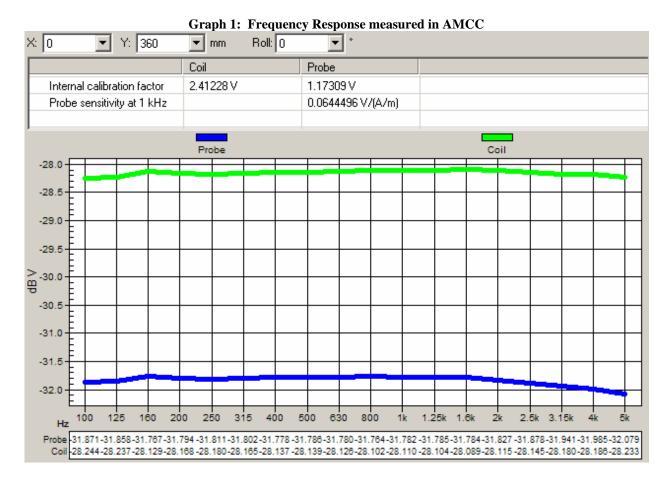
<u>AMMI</u> (Audio Magnetic Measurement Instrument) is a desktop unit containing a sampling unit, a waveform generator for test, calibration signals and a USB interface. Front connectors include: Audio Out - predefined or user definable audio signals for injection into the WD; Probe In - the probe signal is evaluated by AMMI; Coil Out - test and calibration signal to the AMCC; Coil In - monitor signal from the AMCC.

<u>Audio Magnetic Probe</u> (AM1DV2) is an active probe with a single sensor. The same probe coil is used to measure three orthogonal field components (axial, radial 1, radial 2). The probe is rotated to properly orient the coil for each field component. Probe's frequency response, linearity and other characteristics are given in the certificate in Appendix 6.

<u>AMCC</u> (Audio Magnetic Calibration Coil) is a Helmoltz coil for calibration of the AM1D probe. The two horizontal coils create a homogeneous magnetic field in the z direction. Refer to Appendix 7 for more details on AMCC coil.

Page 5 Exhibit 6B - 2

The probe is calibrated in AMCC coil. The frequency response and sensitivity are measured and stored. Sensitivity includes both probe sensitivity and pre-amplifier sensitivity.



Sensitivity measured in AMCC: 0.0644496 V/(A/m)

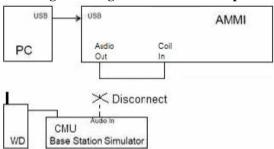
The sensitivity is for 1 kHz sine signal. The sensitivity includes both probe sensitivity and pre-amplifier sensitivity. It is the total calibration, and there are no additional probe calibration factors. The voltage into the Helmholtz coil is across the shunt resistor.

4. Signal Verification

An Input Level is measured to verify that it is within +/-0.2 dB from the Reference Input Level in section 6.3.2.1 of ANSI PC63.19-2006.

FCC ID: IHDT56HZ1

Figure 2: Signal Verification Setup



In Figure 2 setup, "Audio Out" of the AMMI is connected to the "Coil In" of the AMMI. The "Audio Out" of the AMMI is measured using 1V as the reference.

Section 6.3.2.1 of ANSI PC63.19-2006 specifies the reference input level to be -16 for GSM and -18 for CDMA. Each CMU has a slightly different "0dBm0 Input Reference" value that must be measured. When the CMU box is replaced or externally re-calibrated, an internal calibration procedure must be completed in each transmission mode. On the CMU 200 (SN 108475), the 0dBm0 Input Reference value is 0.74 V for CDMA and 0.74 V for GSM. For more information on "0dBm0 Input Reference" measurements, refer to Appendix 3-5.

The Target Level for "Audio Out" of the AMMI is shown in Table 3. This target level takes into account the difference between AMMI's and CMU's reference levels.

Table 3: Measured Input Level

14	Die 3. Micasui	eu mpui Leve	-1	
Modulation	Reference Input Level	CMU's 0dBm0	Target Level for "Audio	
	from ANSI	Input	Out" of	
	PC63.19	Reference	AMMI	
	(dBm0)	Value (dB)	(dBm0)	
GSM	-16	-2.62	-18.62	

The signal level for "Audio Out" of the AMMI is measured. Signal Verification has been conducted on the same days as DUT measurements. If it is not within ± 0.2 dB, the gain settings in the DASY template are adjusted. The obtained results are displayed in Table 4.

Table 4: Measured Input Level

Modulation	Measured date	Signal	Measured Level for "Audio Out" of AMMI (dBm0)	Target Level for "Audio Out" of AMMI (dBm0)		
	May-05-2007	Narrowband	-18.66			
	Way-03-2007	Broadband	-18.60			
GSM	May-06-2007	Narrowband	-18.66	-18.62		
OSW	Way-00-2007	Broadband	-18.60	-18.02		
	May-07-2007 Narrowband		-18.66			
	Way-07-2007	Broadband	-18.60			

Page 7 Exhibit 6B - 2

5. Test Results

5.1 Telecoil SNR Results

The DASY4 v4.7 measurement system specified in section 3.1 was utilized within the intended operations as set by the SPEAGTM setup. The Test Arch provided by SPEAG is used to position the DUT. All tests are done via conducted setup with CMU 200. The volume on the phone is adjusted to maximum. Backlight was off during testing, and HAC compliance will be explained in the manual. The tests were performed using the phone's normal operation mode.

The Cellular Phone model covered by this report has the following battery options:

Battery #1 - Model SNN5810A 1350 mAh Battery

Battery #2 - Model SNN5808A 920 mAh Battery

Battery #3 - Model SNN5805A 740 mAh Battery

The distance is established by positioning the device beneath the test arch phantom so that it is touching the frame. The location and thickness of the arch, and the location/orientation of the coil within the probe housing, are precisely known values in the DASY software. The height of the measurement plane is further fine-tuned by performing a Surface Detection job at the beginning of each test. The end result is that the probe sensor is very precisely located 10 mm above the device reference plane.

ABM2 investigation has been carried out to determine the highest channel / frequency of each applicable frequency band. At the location of the Telecoil source, ABM2 is measured in the axial probe position for each frequency (Table 5). For each band, the channel with the highest ABM2 measurement is highlighted in **bold**.

Table 5: ABM2 measurements across the frequency band for the portable	e
cellular telephone at highest possible output power.	

ABM2 Measurements (dB A/m)								
G G 1 5	Ch 128	-36.59						
GSM 850	Ch 190	-36.86						
	Ch 251	-35.27						
G G 2 5	Ch 512	-36.45						
GSM 1900	Ch 661	-36.66						
	Ch 810	-38.71						

For the channels highlighted in bold in Table 5, Telecoil SNR measurements are shown in Table 6. The sequence of the Telecoil SNR measurement is listed in steps below.

- a) Geometry & signal check
- b) Background noise measurement. The background noise is measured at the center of the listening area.
- c) Coarse resolution axial scan (narrowband signal, 1 sec measurement times, 50x50 mm grid with 5.55 mm spacing). Only ABM1 is measured in order to find the location of the Telecoil source.
- d) Fine resolution axial, radial-transverse, & radial-longitudinal scans, positioned appropriately based on optimal ABM1 of coarse resolution axial scan (narrowband signal, 1 sec measurement times, variable grid size with 2 mm spacing). Both ABM1 and ABM2 are measured in order to find the location of the SNR point.
- e) ABM1 & ABM2 point measurements in axial, radial-transverse, & radial-longitudinal coil orientations, positioned appropriately based on optimal signal quality of fine resolution scans (narrowband signal, 2 sec measurement times). SNR is calculated for each coil orientation.
- f) Frequency Response point measurement in axial coil orientation, positioned appropriately based on optimal signal quality of fine resolution axial scan (broadband signal, 12 sec measurement time)

Page 8 Exhibit 6B - 2

FCC ID: IHDT56HZ1

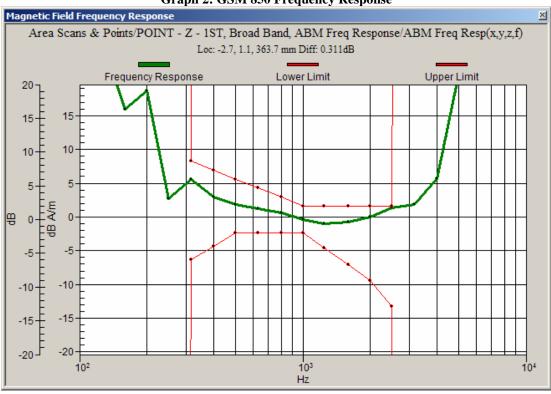
The ABM1, SNR and Telecoil Rating results are shown in Table 6. Also shown are the measured conducted output power, location of the measured point, noise and ABM2. The delta between Ambient Noise measurement and ABM2 measurement should be greater than 10 dB. However, in cases where ABM2 is very low, it is suitable for the delta to be less than 10 dB. For the three probe positions, contour plots for the lowest SNR, indicated in **bold numbers**, are given in Appendix 1. For the three probe positions, noise spectrum plots for the highest ambient noise, indicated with **bold numbers**, are given in Appendix 2. These noise spectrum plots are half band integrated with an A-weight filter applied.

Telecoil SNR Limits for AWF = -5								
ABM 1	Greater or equal to -13 dB A/m (axial) Greater or equal to -18 dB A/m (radial)							
SNR	Т3	Greater than 5 dB						
SINK	T4	Greater than 15 dB						

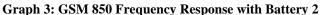
Table 6: Telecoil SNR measurement results for the portable cellular telephone at highest possible output power

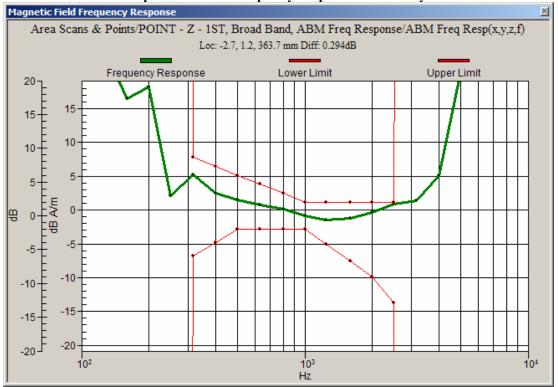
Conducted Measured ABM2 -Ambient T-coil Probe Frequency Output Point ABM2 Ambient ABM1 **SNR** Channel Noise **SNR** Position Band (MHz) Power Location (dB A/m) Noise (dB A/m) (dB) (dB A/m) Rating (dBm) (x mm, y mm) (dB) 251 32.92 -36.70 -0.3798 T4 -2.7, 1.1 -59.15 22.45 36.32 GSM 850 -2.7, 1.2 -53.78 -37.21 16.57 -0.8549 T4 with Battery 2 36.36 with Battery 3 1.2, -1.2 -59.08 -32.16 26.92 1.426 33.59 T4 Axial 512 30.50 -0.4.1.2-59.10 -38.33 20.77 -0.473937.85 **T4** GSM 1900 with Battery 2 -2.7, 1.1 -59.11 -39.14 19.97 -1.668 37.47 T4 -2.8, 1.2 -59.18 -39.57 19.61 -1.300 T4 with Battery 3 38.27 251 32.92 -11.2, -6.4-59.27 -47.47 11.80 -14.0333.44 T4 GSM 850 with Battery 2 -9.1, 1.2 -56.33 -38.22 18.11 -9.261 28.96 T4 -8.4, 4.4 -59.31 -39.89 19.42 -9.211 30.68 T4 with Battery 3 Radial 1 30.50 -6.8, -0.8 -59.31 -44.20 15.11 -8.383 35.81 **T4** 512 GSM 1900 16.99 -11.49 T4 with Battery 2 -11.1, 1.2 -59.36 -42.3830.89 -9.1, 1.1 -59.40 -41.72 -9.414 Т4 with Battery 3 17.69 32.31 -3.2, 7.5 251 32.92 -58.92 -31.98 26.94 -8.661 23.32 **T4** GSM 850 -3.1, -6.8 -38.76 17.78 -9.345 29.42 T4 with Battery 2 -56.54 with Battery 3 1.6, -7.6 -58.90 -41.00 17.90 -6.587 34.41 T4 Radial 2 512 30.50 -0.8, 7.2-58.89 -34.6824.21 -8.25926.42 **T4** GSM 1900 -1.1, -6.8 -58.93 -44.22 14.70 -9.211 35.01 T4 with Battery 2 with Battery 3 -3.1, 7.1 -58.88 -42.1716.71 -9.760 32.42 T4

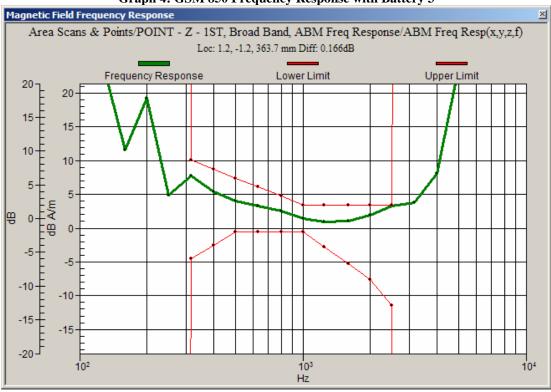
Page 9 Exhibit 6B - 2



Graph 2: GSM 850 Frequency Response

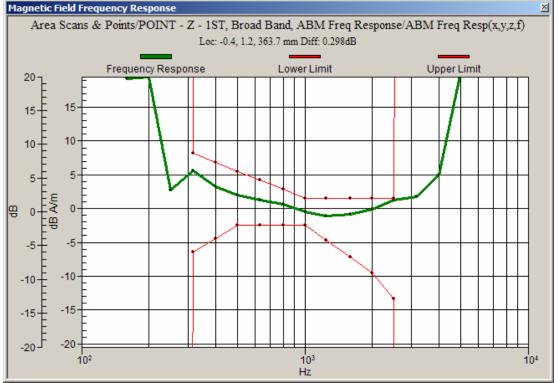






Graph 4: GSM 850 Frequency Response with Battery 3

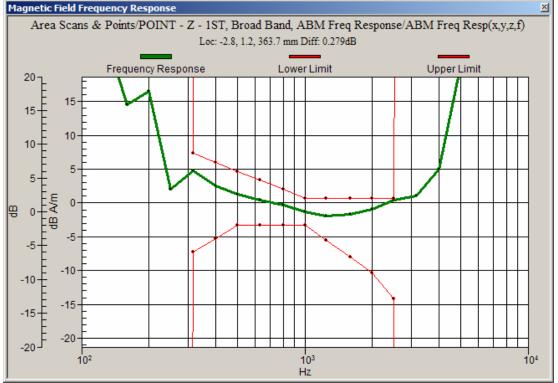






Graph 6: GSM 1900 Frequency Response with Battery 2





Page 12 Exhibit 6B - 2

5.2 Telecoil Environment Results

Telecoil Environment is determined by analysis of both E-Field scan and H-Field scans in the area of the Telecoil location. The Telecoil location is the earpiece speaker area. The 5 cm x 5 cm measurement grid is centered on the acoustic output of the device. The probe is raised 10 mm from the highest point of the phone's contour to the nearest point of the probe element. The phone was tested in all normal configurations for the ear use. These configurations are tested at the high, middle and low frequency channels of each applicable frequency band. For more information on the near field measurements on the unit 35563010000147, refer to "HAC Test Report for Near Field Emissions IHDT56HZ1" from April 26, 2007.

FCC ID: IHDT56HZ1

The worst-case test conditions are indicated with **bold numbers** in the tables and are detailed in Appendix 8: HAC distribution plots for E-Field and H-Field.

Table 7: Telecoil Environment measurement results for the portable cellular telephone at highest possible output power.

Table 7a: HAC E-Field measurement results

Frequency Band (MHz)	Antenna position	Channel Setting	Conducted Output Power (dBm)	Measured PMF	Drift (dB)	Excluded Cells	Peak Field (V/m)	Rating
		128	32.96		-0.27	3,6	219.9	M3
GG) f		190	33.03	2.84	0.01	3,6	213.0	M3
GSM 850 MHz	Fixed	251	32.92		-0.02	3,6	224.5	M3
0001/1112		with B	attery #2		0.075	3,6	246.8	M3
		with Battery #3			0.08	3,6	237.6	M3
		512	30.50		0.09	2,3,6	75.6	M3
GG) f		661	30.47		-0.02	2,3,6	70.4	M3
GSM 1900 MHz	Fixed	810	30.46	2.87	-0.07	1,2,3	76.9	M3
		with Battery #2			-0.11	1,2,3	76.0	M3
		with B	attery #3		-0.07	1,2,3	71.5	M3

Table 7b: HAC H-Field measurement results

Frequency Band (MHz)	Antenna position	Channel Setting	Conducted Output Power (dBm)	Measured PMF	Drift (dB)	Excluded Cells	Peak Field (A/m)	Rating
GSM 850 MHz		128	32.96		0.06	1,4,7	0.220	M4
	Fixed	190	33.03	2.44	0.02	1,4,7	0.218	M4
		251	32.92		0.09	1,4,7	0.233	M4
030 11112		with Battery #2			0.03	1,4,7	0.230	M4
		with Battery #3			0.02	1,4,7	0.232	M4
		512	30.50		0.28	1,2,4	0.165	M3
		661	30.47		0.13	1,2,4	0.174	M3
GSM 1900 MHz	Fixed	810	30.46	2.65	0.13	1,2,4	0.197	M3
1700 14112		with B	with Battery #2		0.29	1,4,7	0.194	M3
		with B	attery #3		-0.13	1,2,4	0.185	M3

Page 13 Exhibit 6B - 2

5.3 T-Rating Results

Both Telecoil SNR (Table 6) and Telecoil Environment (Table 7) determine the T-rating. Table 8 summarizes the Telecoil SNR rating and the Telecoil Environment rating. For each probe position and frequency band, the T-rating is determined from lower of Telecoil SNR and Telecoil Environment.

Table 8: T-Rating results

Probe Position	Frequency Band (MHz)	ABM1	Frequency Response	Telecoil SNR Rating (from section 5.1)	Telecoil Env Rating (from section 5.2)	T-rating
Axial	GSM 850	Pass	Pass	T4	Т3	Т3
Axidi	GSM 1900	Pass	Pass	T4	Т3	Т3
Radial 1	GSM 850	Pass		T4	Т3	Т3
Raulai 1	GSM 1900	Pass		T4	Т3	Т3
Radial 2	GSM 850	Pass		T4	Т3	Т3
Radiai 2	GSM 1900	Pass		T4	Т3	Т3

The final T-rating for the portable cellular phone (FCC ID IHDT56HZ1) is the lowest T-rating from Table 8 (last column). This rating is the lowest category across probe positions and frequency bands.

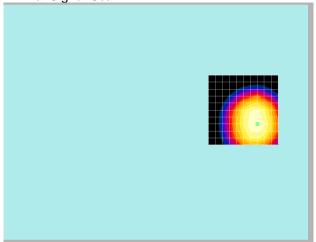
T-rating for DUT	
(lowest rating from	T3
Table 8, last column)	

Page 14 Exhibit 6B - 2

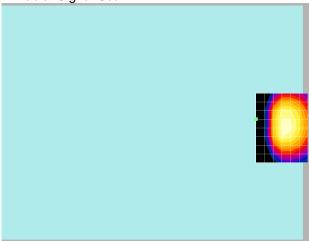
Contour Plots

Page 15 Exhibit 6B - 2

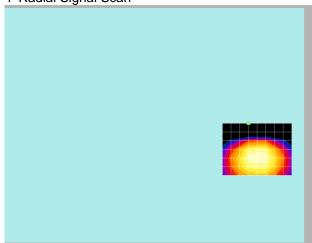




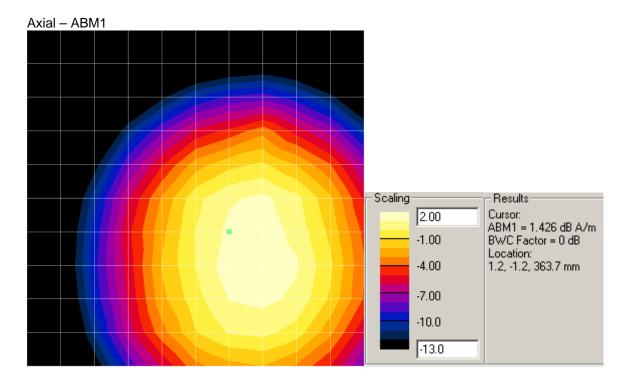
X-Radial Signal Scan

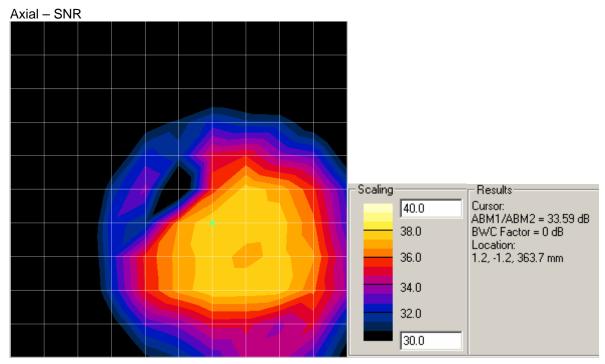


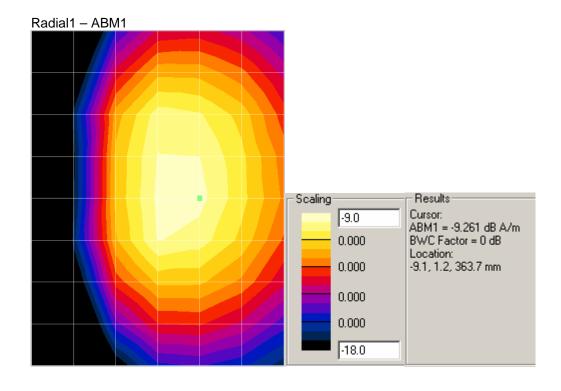
Y-Radial Signal Scan

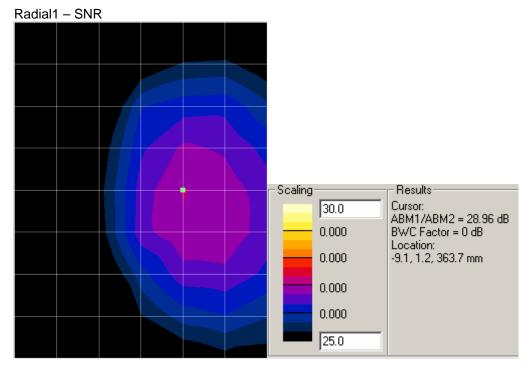


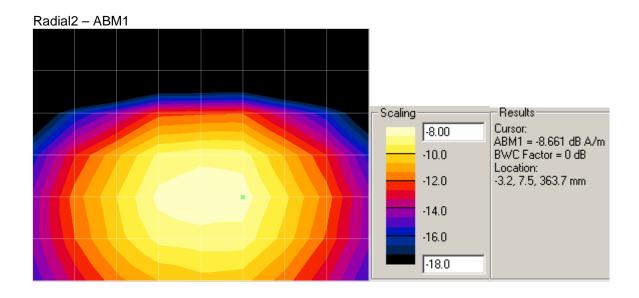
Note: The green square designates the device reference point.

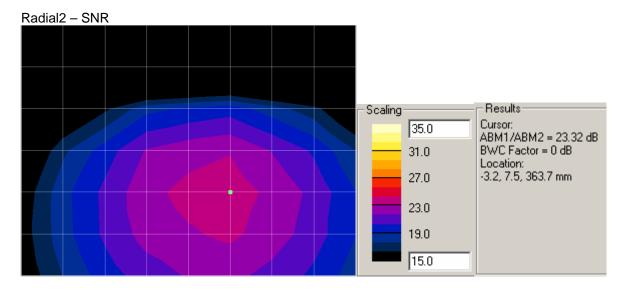






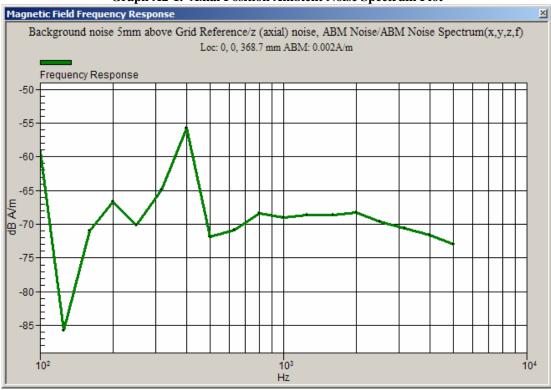




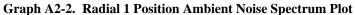


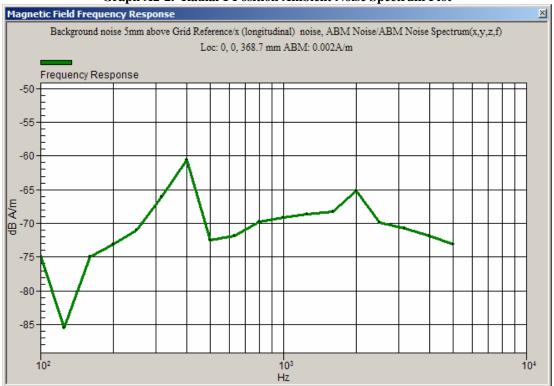
Ambient Noise Spectrum Plots

Page 20 Exhibit 6B - 2

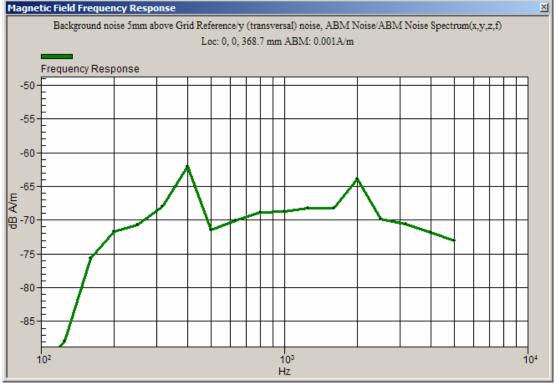


Graph A2-1. Axial Position Ambient Noise Spectrum Plot





Page 21 Exhibit 6B - 2



Graph A2-3. Radial 2 Position Ambient Noise Spectrum Plot

Page 22 Exhibit 6B - 2

FCC ID: IHDT56HZ1

Details on the Measurement Systems

Page 23 Exhibit 6B - 2

3-1) Details on ABM2 measurements by the system

(Description provided by Schmid & Partner Engineering, AG):

The processing applies a convolution in the time-domain. This filtering is composed of integrator (straightforward), Half-Band filter (first-order filter) and A-weighting. The convolved data stream is then integrated over the desired period and represented and stored numerically in DASY4 as the ABM Noise (= ABM2).

During the validation process of our system, the functionality of this process has been verified by debugging the filters step-by-step progressive and comparing the results also with a Rohde & Schwarz UPL Analyzer. The intermediate steps are not accessible in the final software code operated by the end user. In addition, the following verification has been made, using a single frequency (sine) signal: At the reference frequency of 1 kHz, the signal is equivalent to ABM1. ABM1 is visible from the calibration job, inclusive its frequency slope from 100Hz to 5kHz. This function (conversion of the coil voltage to the field) is the same integration function.

The verification of the probe linearity and the linearity of the integrator has been determined and documented in the certificate 880-SP AM1 001 A, inclusive the integrator, over the required frequency range (exceeding 5 kHz). The additional frequency slope of the Half-Band filter and the A-weighting have also been tested by changing the applied frequency over the full range. The attenuation was verified for each third-octave-band and up to > 10 kHz. In addition, the correct processing of multiple sine-wave signals was verified.

The convolutions work over the full frequency range available in the analog path, only limited by AC-coupling at the low end and anti-aliasing filter at the high frequency end. White noise signal without band limitation has not been used for filter measurements. Pink noise, decreasing with frequency, resulting in a frequency independent response of the third-octave filter bank was used to optically verify the correct filtering function. Precision measurements were however made with pure sine signals.

Frequency components beyond the visible range of 5 kHz are contained in the ABM2 figure.

(Measurements made by Motorola):

Comparison of 1kHz narrowband signal driven extenally into TMFS coil

E A II	chally into rivil 3	COII
ABM1 @ 1kHz	ABM2 @ 1kHz	difference
-25.122	-25.124	0.002 dB

Frequency dependent ABM1 - ABM2 with broadband noise and narrowband tones driven externally into

Frequency	dB difference ABM1-ABM2 broadband signal	dB difference ABM1-ABM2 single frequency signals	ideal value for ABM1-ABM2	variance from ideal boadband	variance from ideal single frequencies
200		22.062	22.35		0.288
250			17.89		
315			14.03		
400		10.371	10.39		0.019
500	6.852		7.18	0.328	
630	4.228		4.36	0.132	
800	1.587	1.881	1.88	0.293	-0.001
1000	0.013	0.013	0	-0.013	-0.013
1250	-1.473		-1.46	0.013	
1600	-2.72		-2.58	0.14	
2000	-3.535	-3.235	-3.24	0.295	-0.005
2500	-3.738		-3.67	0.068	
3150	-3.837		-3.79	0.047	
4000	-3.733	-3.744	-3.75	-0.017	-0.006
5000	-3.283	-3.336	-3.34	-0.057	-0.004
	maximum variati	on from ideal:		0.32	8 dB

3-2) Details on the compliancy of the frequency and linearity response

(Description provided by Schmid & Partner Engineering, AG):

See also probe certificate of conformity in Appendix 6, titled 880-SP AM1 001 A-A See also coil certificate of conformity in Appendix 7, titled 880-SD HAC P02A-A

Frequency response has been tested to be within \pm 0.5 dB of ideal differentiator from 100 Hz to 10 kHz. The test was made with the real integrator and deducting the ideal integrator values. Reference signal was the Helmholtz calibration coil current which is equivalent to the field. The coil is qualified according to certificate 880-SD HAC P02 A-A.

FCC ID: IHDT56HZ1

The test data up to 5 kHz are visible directly in the calibration job result (coil current / shunt voltage, and probe voltage). Separate measurements were made for a very wide frequency range, including higher frequencies. For the third-octave bands up to 5 kHz do not exceed 0.05 dB and decay by < 0.2 dB to 5 kHz and by < 0.5 dB to 10 kHz, as required.

Linearity has also been tested and is stated in the certificate. Deviation was not measurable from 5 dB below limitation to 26 dB above noise level. For lower levels, the deviation increased to 0.1 dB at 16 dB above noise level, which corresponds to the theoretical value of 0.11 dB expected at that noise suppression level.

Significant noise contribution beyond 10 kHz will be attenuated by the convoluting A-filter as explained in answer #2. Such interferences contribute also to ABM2 represented as numerical value from the integration.

Page 25 Exhibit 6B - 2

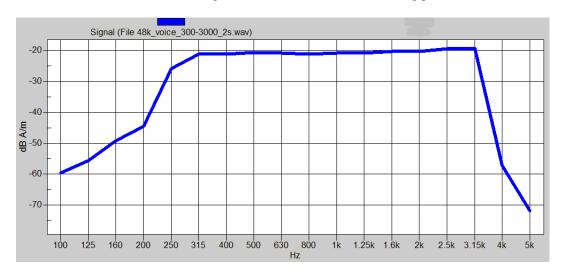
3-3) Details on Measurements by the systems

Details regarding timing and averaging of the reported final measured points are as follows:

	Narrowband Signal	Broadband Signal
Signal Length (sec):	1	2
Total Data Acquisition Time per Location (sec):	2	12
	Averaging is over 2 signal repetitions	Averaging is over 6 signal repetitions

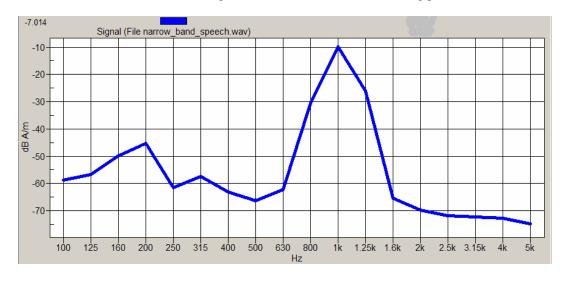
FCC ID: IHDT56HZ1

The broadband signal utilized is shown in the following plot:



Mathematical processing is not required because the preferred method (as described in IEEE ANSI C63.19-2006 section 6.3) is utilized. The broadband audio signal is used only for assessment of frequency response. The DASY4 system corrects for the spectral response after measurement since it knows the spectrum of the input signal. However, please note that for the signal that we use, the spectrum is flat when measured in 1/3 octave bands, covering the range up to 3kHz.

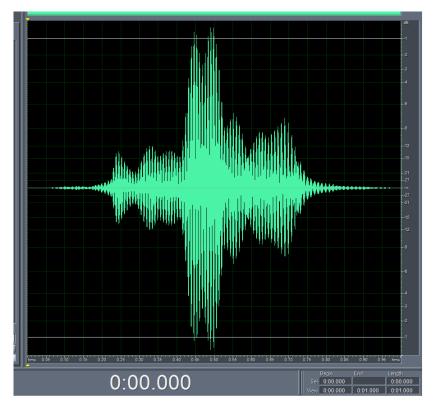


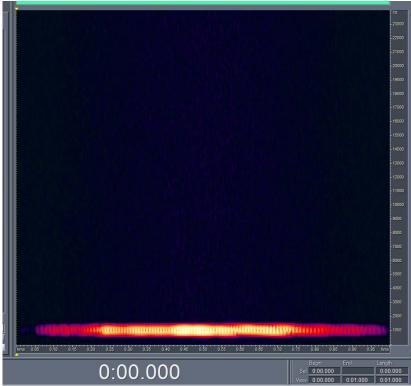


Page 26 Exhibit 6B - 2

3-4) Details of the source audio signals for all aspects of the test

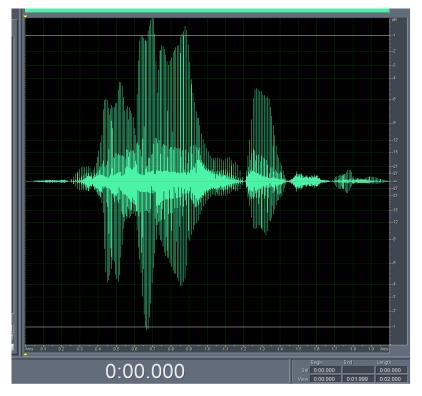
Here is the temporal response of the narrow band signal. The signal is one second of the standard P.50 speech band limited to the ANSI 1kHz 1/3 octave band. The signal is Hann windowed to ensure continuity of the signal.

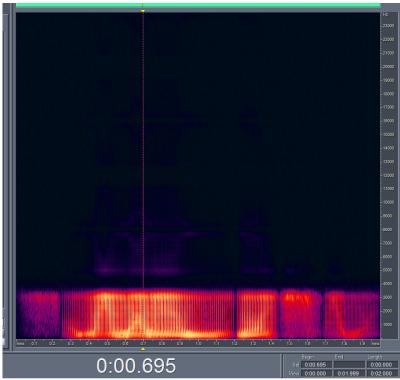




Page 27 Exhibit 6B - 2

Here is the temporal response of the 300Hz-3kHz broadband signal. The signal is a 2 second segment of the standard P.50 speech that is equalized flat (for ANSI 1/3 octaves) over the 300Hz to 3kHz range. The signal is Hann windowed to ensure continuity of the signal.





3-5) Details of the CMU-200 "0dBm0 Input Reference value"

Measure "Ref Input Level"

- a) Generate a 1 kHz Sine Signal using AMMI.
- b) Capture a signal level using AMMI.
- c) Record the value as the "Ref Input Level"

Measure Value "X"

- d) Connect CMU to AMMI.
- e) Connect a phone which operates in the desired modulation to the CMU. Establish a call to the CMU. Select Decoder Cal on CMU.
- f) Capture a signal level from CMU using AMMI.
- g) Record the value as the "Value X".

Measure Value "M"

- h) Make another connection from AMMI to CMU. Change to Encoder Cal on CMU.
- i) Generate a 1 kHz Sine Signal using AMMI
- j) Capture a signal from CMU using AMMI.
- k) Record the value as the "Value M".

Calculate the resulting Input Correction Factor & the 0dBm0 Input Reference

Relevant Equations:

Measured values from above: Ref Input Level, X, M

Input Correction Factor = Ref Input Level + X - M

0dBm0 Input Reference = 10^(Input Corr Factor/20) * CMU-200 manual ref value

Page 29 Exhibit 6B - 2

FCC ID: IHDT56HZ1

Pictures of Test Setup

>>>Photos were moved to FCC Exhibit 7 <<<<

Page 30 Exhibit 6B - 2

Motorola Uncertainty Budget

Page 33 Exhibit 6B - 2

Table A5-1: Telecoil Uncertainty Budget, provided by SPEAG

Error Description	Uncertainty value (%)	Prob. Dist.	Div.	c ABM1	c ABM2	St.Unc ABM1 (%)	St.Unc ABM2 (%)
PROBE SENSITIVITY							
Reference level	3.0	N	1	1	1	3.0	3.0
AMCC geometry	0.4	R	1.7	1	1	0.2	0.2
AMCC current	0.6	R	1.7	1	1	0.4	0.4
Probe positioning during calibration	0.1	R	1.7	1	1	0.1	0.1
Noise contribution	0.7	R	1.7	0.0143	1	0.0	0.4
Frequency slope	5.9	R	1.7	0.1	1	0.3	3.5
PROBE SYSTEM							
Repeatability / Drift	1.0	R	1.7	1	1	0.6	0.6
Linearity / Dynamic range	0.6	R	1.7	1	1	0.4	0.4
Acoustic noise	1.0	R	1.7	0.1	1	0.1	0.6
Probe angle	2.3	R	1.7	1	1	1.4	1.4
Spectral processing	0.9	R	1.7	1	1	0.5	0.5
Integration time	0.6	N	1	1	5	0.6	3.0
Field disturbation	0.2	R	1.7	1	1	0.1	0.1
TEST SIGNAL							
Reference signal spectral response	0.6	R	1.7	0	1	0.0	0.4
POSITIONING							
Probe positioning	1.9	R	1.7	1	1	1.1	1.1
Phantom thickness	0.9	R	1.7	1	1	0.5	0.5
DUT positioning **	4.0	R	1.7	1	1	2.4	2.4
-							
EXTERNAL CONTRIBUTIONS							
RF interference	0.0	R	1.7	1	1	0.0	0.0
Test signal variation	2.0	R	1.7	1	1	1.2	1.2
COMBINED UNCERTAINTY							
Combined Std.Uncert. (ABM field)						4.6	6.5
Expanded Std. Uncertainty, k=2 (%)						9.1	12.9

^{**} based on repeat measurements of reference unit

FCC ID: IHDT56HZ1

Audio Magnetic Probe Certificate

Page 35 Exhibit 6B - 2

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

Client

Motorola MDb

Certificate of test and configuration

Item	AM1DV2 Audio Magnetic 1D Field Probe	
Type No	SP AM1 001 AA	
Series No	1003	
Manufacturer / Origin	Schmid & Partner Engineering AG, Zürich, Switzerland	

Description of the item

The Audio Magnetic Field Probe is a fully shielded magnetic field probe for the frequency range from 100 Hz to 20 kHz. The pickup coil is compliant with the dimensional requirements of [1]. The probe includes a symmetric 40dB low noise amplifier for the signal available at the shielded 3 pin connector at the side. Power is supplied via the same connector (phantom power supply) and monitored via the LED near the connector. The 7 pin connector at the end of the probe does not carry any signals, but determines the angle of the sensor when mounted on the DAE. The probe supports mechanical detection of the surface. The single sensor in the probe is arranged in a tilt angle allowing measurement of 3 orthogonal field components when rotating the probe by 120° around its axis. It is aligned with the perpendicular component of the field, if the probe axis is tilted 35.3° above the measurement plane, using the connector rotation and Sensor angle stated below.

The probe is fully RF shielded when operated with the matching signal cable (shielded) and allows measurement of audio magnetic fields in the close vicinity of RF emitting wireless devices according to [1] without additional shielding.

Handling of the item

The probe is manufactured from stainless steel. In order to maintain the performance and calibration of the probe, it must not be opened. The probe is designed for operation in air and shall not be exposed to humidity or liquids. For proper operation of the surface detection and emergency stop functions in the DASY4 system, the probe must be operated with the special probe cup provided (larger diameter). Verify that the probe can slide in the probe cup rubber smoothly.

Functional test, configuration data and sensitivity

The probe configuration data were evaluated after a functional test including noise level and RF immunity. Connector rotation, sensor angle and sensitivity are specific for this probe.

DASY4 configuration data for the probe

Configuration item	Condition	Configuration Data	Dimension
Overall length	mounted on DAE in DASY4 system	296	mm
Tip diameter	at the cylindrical part	6	mm
Sensor offset	center of sensor, from tip	3	mm
Connector rotation	Evaluated in homogeneous 1 kHz	91.8	٥
Sensor angle	magnetic field generated with AMCC Helmholtz Calibration Coil	4.00	٥
Sensitivity	at 1 kHz	0.0666	V / (A/m)

Standards

[1] ANSI-C63.19-2006

Test date

21.03.2007 MM / FB

Issue date

23.03.2007

Signature

F. Brulevlt

FCC ID: IHDT56HZ1

AMCC Certificate (Helmholz Coil)

Page 36 Exhibit 6B - 2

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 info@speag.com, http://www.speag.com

Certificate of conformity

item	Audio Magnetic Calibration Coil AMCC
Type No	SD HAC P02 A
Series No	1001 ff.
Manufacturer / Origin	Schmid & Partner Engineering AG Zurich, Switzerland

Description of the item

The Audio Magnetic Calibration coil (AMCC) is a Helmholtz Coil designed according to standard [4], section D.9 for calibration of the AM1D probe. Two horizontal coils are positioned above a non-metallic base plate and generate a homogeneous magnetic field in the z direction (normal to it).

Configuration

The AMCC consists of two parallel coils of 20 turns with radius 143 mm connected in parallel in a distance of 143 mm. With this design, a current of 10 mA produces a field of 1 A/m.

The DC input resistance at the input BNC socket is adjusted by a series resistor to a DC resistance of approximately 50 Ohm. The voltage required to produce a field of 1 A/m is consequently approx. 500 mV.

To current through the coil is monitored via a shunt resistor of 10 Ohm +/- 1%. The voltage is available on a BNO socket with 100 mV corresponding to 1 A/m.

Handling of the item

The coil shall be positioned in a non-metallic environment to avoid distortion of the magnetic field.

Tests

Test	Requirement	Details	Units tested
Number of turns	N = 20 per coil	Resistance measurment	all
Orientation of coils	parallel coils with same direction of windings	Magnetic field variation in the AMCC axis	all
Coil radius	r = 143 mm	mechanical dimension	First article
Coil distance	d = 143 mm distance between coil centers	mechanical dimension	First article
Input resistance	51.7 +/- 2 Ohm	DC resistance at BNC input connector	all
Shunt resistance	R = 10.0 Ohm +/- 1 %	DC resistance at BNO output connector	all
Shunt sensitivity	Hc = 1 A/m per 100 mV according to formula Hc = (U / R)*N / r / (1.25^1.5)	Field measurement compared with Narda ELT400 + BN2300/90.10	First article

Standards

[1] ANSI PC63.19-2006 Draft 3.12

Conformity

Based on the tests above, we certify that this item is in compliance with the requirements of [1].

Date

22.5.2006

Stamp / Signature

Schmid & Faffner Engineering AG
Zeughausstraste 43, 9004 Zurich Suszerland
Phony 4411 248 2007 24:411 45 9779
info@speag.com, http://www.speag.com

FCC ID: IHDT56HZ1

HAC Distribution plots for E-Field and H-Field

Page 37 Exhibit 6B - 2

Date/Time: 4/16/2007 10:18:16 AM

Test Laboratory: Motorola - 041607, E - 835 CW - 1.2% GOOD

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1042

Procedure Notes: 835 MHz HAC Validation; Dipole Sn# 1042; Input Power = 100 mW

Communication System: CW - HAC; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6R SN2244; ConvF(1, 1, 1); Calibrated: 7/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn440; Calibrated: 1/24/2007
- Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - Probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

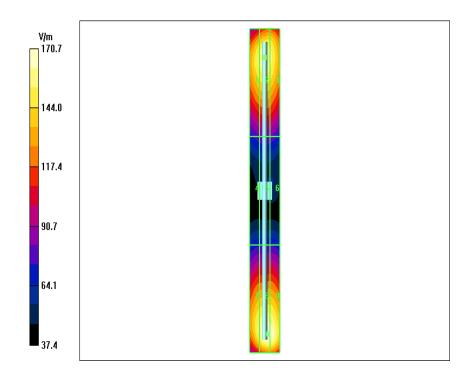
Probe Modulation Factor = 1.00; Reference Value = 103.6 V/m; Power Drift = 0.064 dB

Maximum value of Total (interpolated) = 170.7 V/m

Average value of Total (interpolated) = (161.8 + 170.7) / 2 = 166.25 V/m

Peak E-field in V/m

Grid 1 157.0		
Grid 4	Grid 5	Grid 6
80.1	82.4	81.4
	82.4 Grid 8	



Date/Time: 4/16/2007 11:35:14 AM

Test Laboratory: Motorola - 041607, E - 1880 CW - 4.0% GOOD

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1060

Procedure Notes: 1880 MHz HAC Validation; Dipole Sn# 1060; Input Power = 100 mW

Communication System: CW - HAC; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6R SN2244; ConvF(1, 1, 1); Calibrated: 7/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn440; Calibrated: 1/24/2007
- Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - Probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

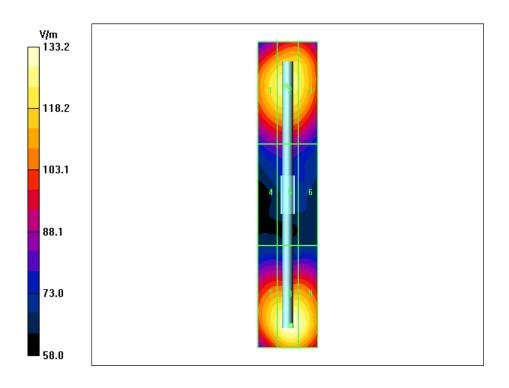
Probe Modulation Factor = 1.00; Reference Value = 149.2 V/m; Power Drift = -0.036 dB

Maximum value of Total (interpolated) = 133.2 V/m

Average value of Total (interpolated) = (125.9 + 133.2) / 2 = 129.55 V/m

Peak E-field in V/m

Grid 1 124.3		Grid 3 123.6
Grid 4	Grid 5	Grid 6
I		
86.3	88.3	84.7
		84.7 Grid 9



Date/Time: 4/16/2007 10:45:36 AM

Test Laboratory: Motorola - 041607, H - 835 CW + .2 % GOOD

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1042

Procedure Notes: 835 MHz HAC Validation; Dipole Sn# 1042; Input Power = 100 mW

Communication System: CW - HAC; Frequency: 835 MHz; Channel Number: 1; Duty Cycle: 1:1

Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

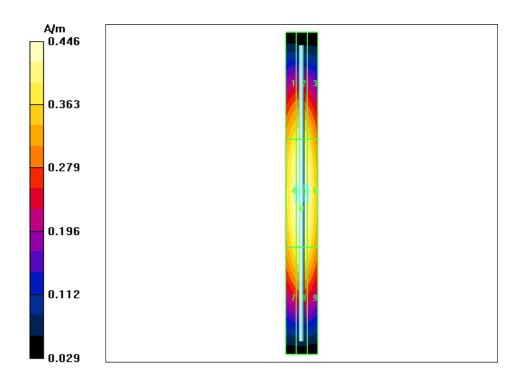
- Probe: H3DV6 SN6078; ; Calibrated: 7/11/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn703; Calibrated: 6/1/2006
- Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - Probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00; Reference Value = 0.478 A/m; Power Drift = -0.003 dB Maximum value of Total (interpolated) = 0.446 A/m

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.384	0.391	0.374
		Grid 6
0.433	0.446	0.424
		Grid 9
0.390	0.406	0.385



Date/Time: 4/16/2007 11:10:11 AM

Test Laboratory: Motorola - 041607, H - 1880 CW - 2.1 % GOOD

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1060

Procedure Notes: 1880 MHz HAC Validation; Dipole Sn# 1060; Input Power = 100 mW

Communication System: CW - HAC; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

• Probe: H3DV6 - SN6078; ; Calibrated: 7/11/2006

• Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn703; Calibrated: 6/1/2006

• Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;

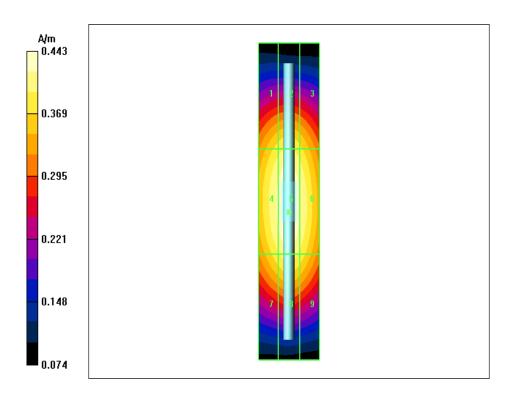
• Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - Probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm Probe Modulation Factor = 1.00; Reference Value = 0.469 A/m; Power Drift = -0.018 dB Maximum value of Total (interpolated) = 0.443 A/m

Peak H-field in A/m

Grid 1		
0.383	0.397	0.378
Grid 4	Grid 5	Grid 6
0.425	0.443	0.422
Grid 7		
0.390	0.410	0.389



Date/Time: 4/19/2007 8:27:19 AM

Test Laboratory: Motorola - GSM 850 E-Field

Serial: 35563010000147

Procedure Notes: Pwr Step: 05; Antenna Position: Internal; Accessory Model #: None

Battery Model #: SNN5808A; PMF Value: 2.84

Communication System: GSM 850; Frequency: 848.8 MHz; Channel Number: 251; Duty Cycle: 1:8

Medium: Air; Medium parameters used: σ = 0 mho/m, ϵ_{r} = 1; ρ = 0 kg/m 3

DASY4 Configuration:

• Probe: ER3DV6R - SN2244; ConvF(1, 1, 1); Calibrated: 7/11/2006

• Sensor-Surface: (Fix Surface)

• Electronics: DAE3 Sn440; Calibrated: 1/24/2007

• Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;

• Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

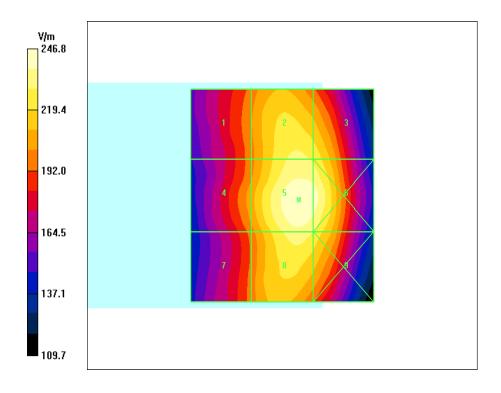
E Scan - Sensor tip 10mm above WD Ref/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm; Maximum value of peak Total field = 246.8 V/m Probe Modulation Factor = 2.84; Reference Value = 92.3 V/m; Power Drift = 0.075 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
200.4	231.4	227.0
Grid 4	Grid 5	Grid 6
206.6	246.8	242.0
Grid 7	Grid 8	Grid 9
197.1	234.8	228.2



Date/Time: 4/16/2007 5:17:58 PM

Test Laboratory: Motorola - GSM 1900 E-Field

Serial: 35563010000147

Procedure Notes: Pwr Step: 0; Antenna Position: Internal; Accessory Model #: None

Battery Model #: SNN5805A; PMF Value: 2.87

Communication System: GSM 1900; Frequency: 1909.8 MHz; Channel Number: 810; Duty Cycle: 1:8

Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

Probe: ER3DV6R - SN2244; ConvF(1, 1, 1); Calibrated: 7/11/2006

• Sensor-Surface: (Fix Surface)

• Electronics: DAE3 Sn440; Calibrated: 1/24/2007

• Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;

• Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

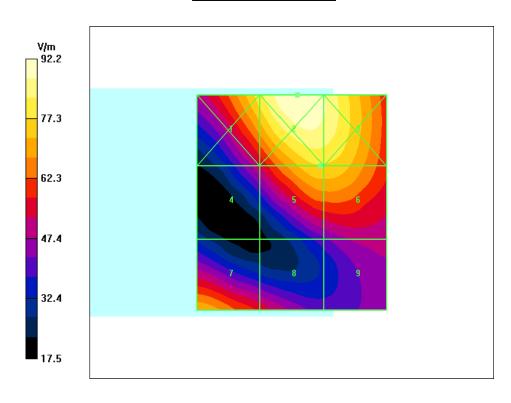
E Scan - Sensor tip 10mm above WD Ref/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm; Maximum value of peak Total field = 76.9 V/m Probe Modulation Factor = 2.87; Reference Value = 19.2 V/m; Power Drift = -0.065 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
80.3	92.2	87.7
Grid 4	Grid 5	Grid 6
		-
52.3	76.9	76.8
	76.9 Grid 8	



Date/Time: 4/16/2007 6:38:19 PM

Test Laboratory: Motorola - GSM 850 H-Field

Serial: 35563010000147

Procedure Notes: Pwr Step: 05; Antenna Position: Internal; Accessory Model #: None

Battery Model #: SNN5805A; PMF Value: 2.44

Communication System: GSM 850; Frequency: 848.8 MHz; Channel Number: 251; Duty Cycle: 1:8

Medium: Air; Medium parameters used: σ = 0 mho/m, ϵ_{r} = 1; ρ = 0 kg/m 3

DASY4 Configuration:

• Probe: H3DV6 - SN6078; ; Calibrated: 7/11/2006

• Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn703; Calibrated: 6/1/2006

• Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;

• Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

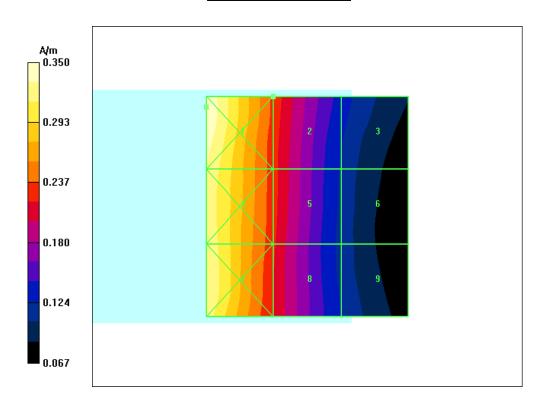
H Scan - Sensor tip 10mm above WD Ref/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm; Maximum value of peak Total field = 0.233 A/m Probe Modulation Factor = 2.44; Reference Value = 0.070 A/m; Power Drift = 0.093 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.350	0.233	0.135
Grid 4	Grid 5	Grid 6
0.330	0.227	0.122
Grid 7	Grid 8	Grid 9



Date/Time: 4/16/2007 6:07:59 PM

Test Laboratory: Motorola - GSM 1900 H-Field

Serial: 35563010000147

Procedure Notes: Pwr Step: 0; Antenna Position: Internal; Accessory Model #: None

Battery Model #: SNN5805A; PMF Value: 2.65

Communication System: GSM 1900; Frequency: 1909.8 MHz; Channel Number: 810; Duty Cycle: 1:8

Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

• Probe: H3DV6 - SN6078; ; Calibrated: 7/11/2006

• Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn703; Calibrated: 6/1/2006

• Phantom: PCS-3, HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x;

• Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - Sensor tip 10mm above WD Ref/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm; Maximum value of peak Total field = 0.197 A/m Probe Modulation Factor = 2.65; Reference Value = 0.074 A/m; Power Drift = 0.128 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.225	0.176	0.159
		Grid 6
0.179	0.197	0.194
	Grid 8	
0.176	0.197	0.195

